

ABSTRACT OF THE DISCLOSURE

In network for forming a VPN on a shared network and communicating via the VPN, a core network of the VPN is formed by an MPLS network, access networks for
5 accessing the core network are formed by VLANs, and edge routers are provided between the MPLS network and VLANs for interfacing the MPLS network and the VLANs. A transmit-side edge router converts a packet, which enters from a VLAN, to an MPLS packet and transmits this
10 MPLS packet to the MPLS network, A receive-side edge router converts the MPLS packet, which has been received from the MPLS network, to a VLAN packet and directs the VLAN packet to a VLAN that belongs to the same VPN as that of a VLAN on the transmit side.